

*** USE OF THIS PRODUCT REQUIRES WRITTEN AUTHORIZATION BY PAGEN SP TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A PERMIT ***

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

AWS 65
AWS 70
AWS 75
ALUMINUM OUTSWING CASEMENT AND FIXED WINDOW (L.M.I.)

APPROVAL APPLIES TO SINGLE UNITS OF SERIES AWS65, AWS70, AWS 75 IN CASEMENT AND FIXED WINDOWS CONFIGURATIONS.

ALSO SIDE BY SIDE COMBINATIONS OF CASMT./CASMT. OR CASMT./FIXED IN MODULES OF TWO OR MORE WINDOWS USING INTEGRAL MULLIONS IN BETWEEN.

ALSO SIDE BY SIDE COMBINATIONS OF CASEMENT OR FIXED WINDOWS WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS CAPACITY CHART, OR SEPARATE MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

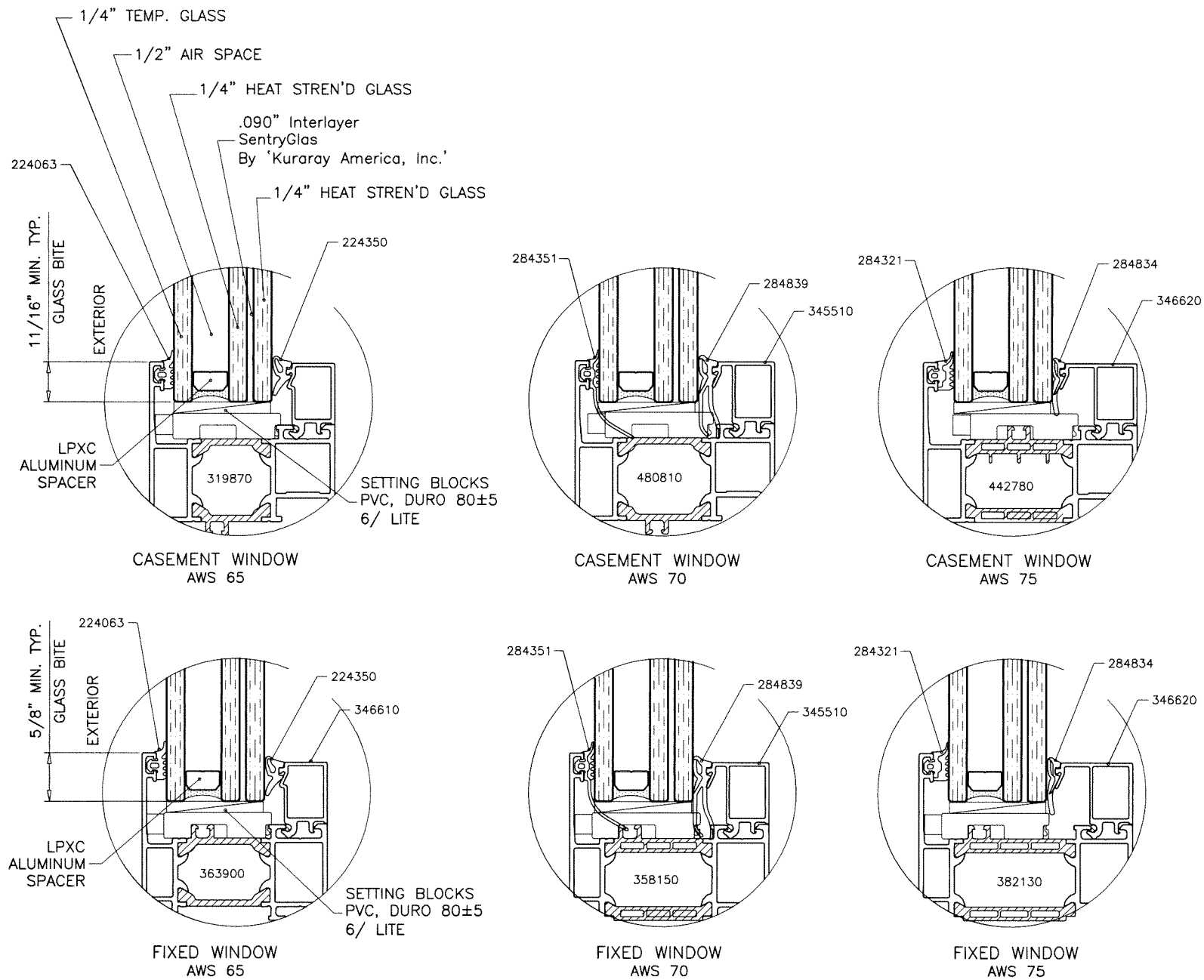
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



GLAZING DETAILS
1-3/8" OVERALL INSUL. LAM. GLASS

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A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



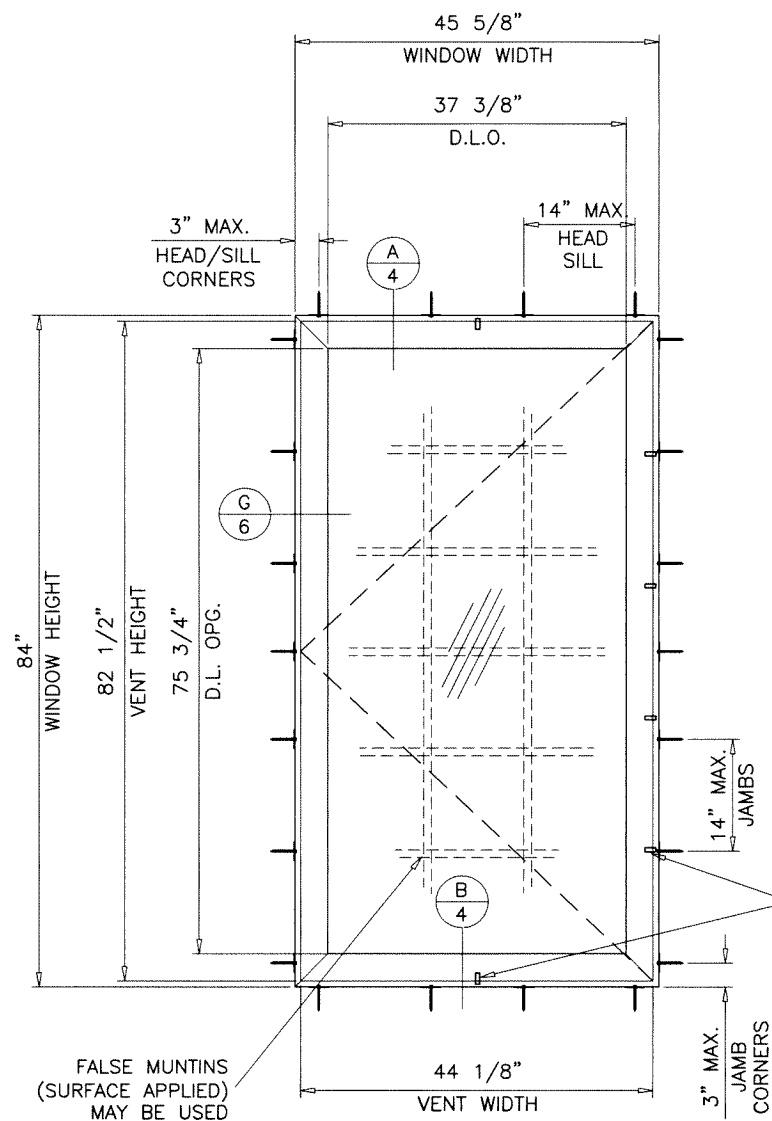
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL \23-16F-PSZ

AWS 65 ALUM OUTSWING CASEMENT WDW. (L.M.I.)
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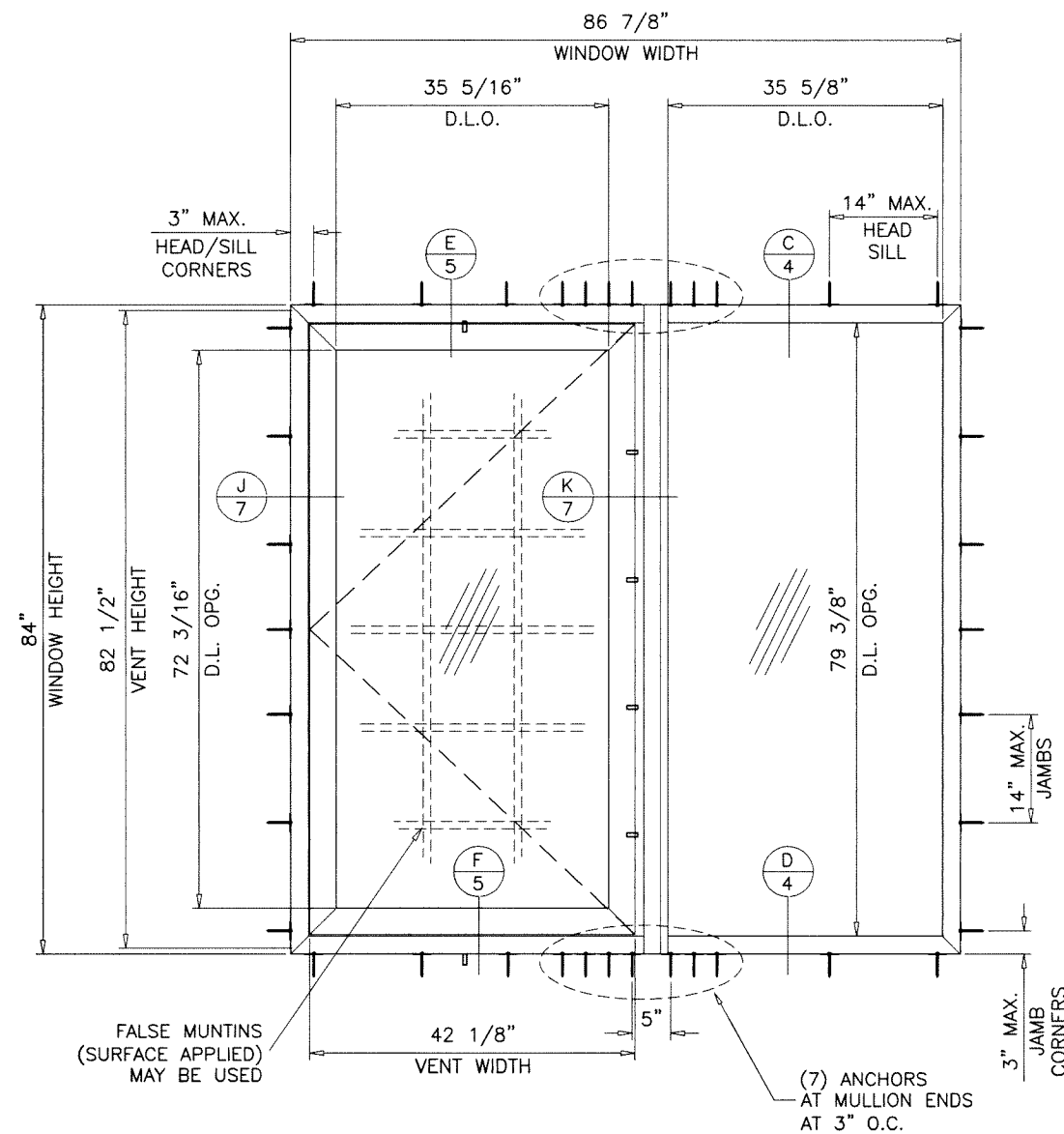
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no. date by description
A 08.10.23 UPDATED TO 2023 FBC

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dr. by: TARIQ
chk. by:

drawing no.
23-16F
sheet 1 of 10



CASEMENT (X)



CASMT-FIX (X-O)

TYPICAL ELEVATIONS

MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
- 70.0 PSF

FOR CASEMENT WINDOW SIZE SHOWN ABOVE OR SMALLER
AND MAX. MULLION HEIGHT SHOWN ABOVE.
FOR FIXED WINDOW CAPACITY SEE SHEET 3.
LOWER DESIGN LOAD FROM CASEMENT WINDOW CAPACITY
OR FIXED WINDOW CAPACITY CHART WILL APPLY.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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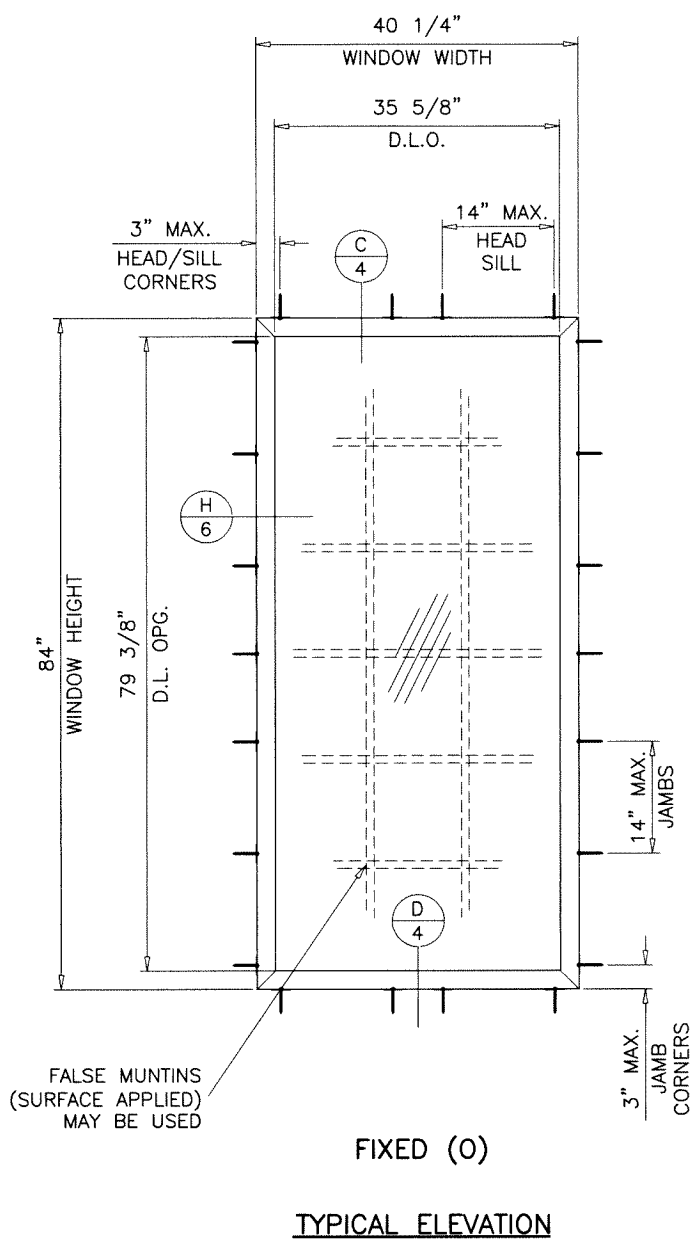
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sheet 2 of 10

FIXED WDWS. DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		1-3/16" OVERALL INSUL. LAM. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	36"	70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		70.0	70.0
66"		70.0	70.0
72"		70.0	70.0
78"		70.0	70.0
84"		70.0	70.0
90"		70.0	70.0
36"	42"	70.0	70.0
42"		67.1	67.1
48"		67.1	67.1
54"		67.1	67.1
60"		67.1	67.1
66"		67.1	67.1
72"		67.1	67.1
78"		67.1	67.1
36"	48"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
54"		58.7	58.7
60"		58.7	58.7
66"		58.7	58.7
36"	54"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
54"		52.2	52.2
60"		52.2	52.2
36"	60"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
54"		52.2	52.2
36"	66"	70.0	70.0
42"		67.1	67.1
48"		58.7	58.7
36"	72"	70.0	70.0
42"		67.1	67.1
36"	78"	70.0	70.0
42"		67.1	67.1
36"	84"	70.0	70.0
36"	90"	70.0	70.0



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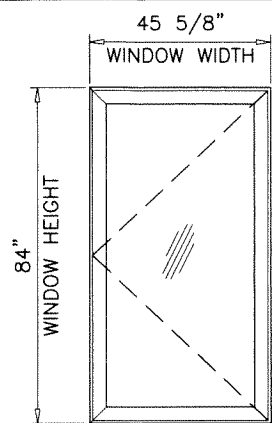
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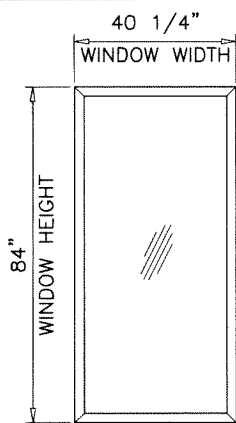
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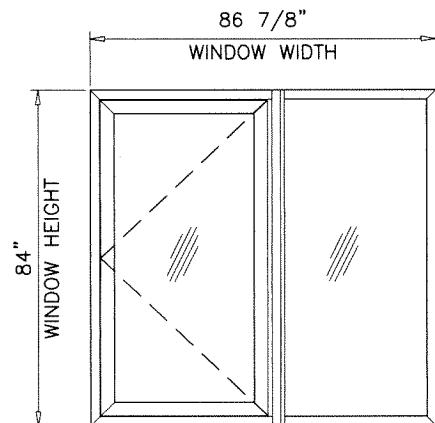
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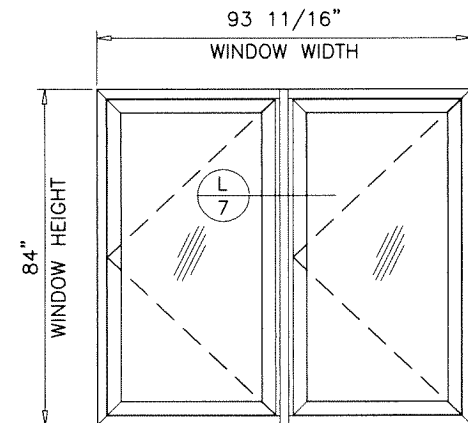
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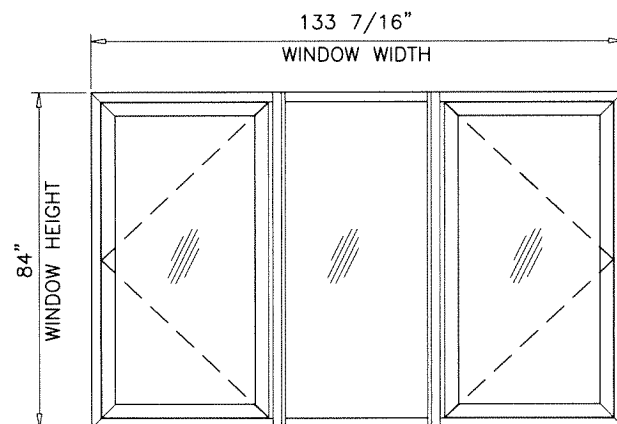
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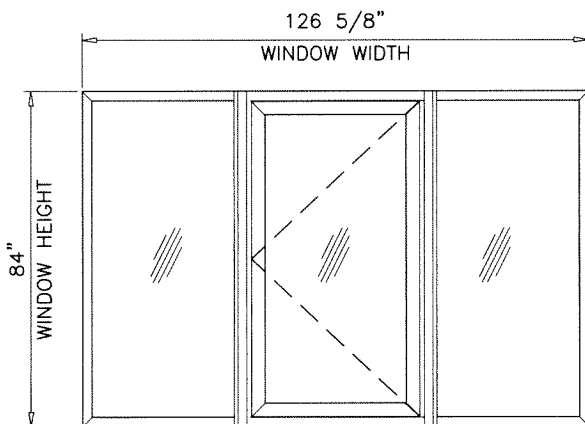
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(O-X)



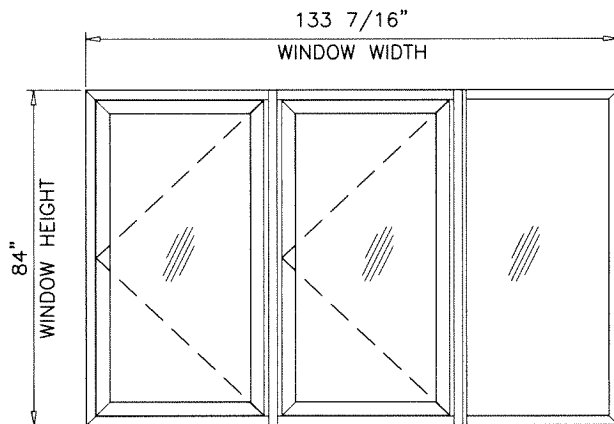
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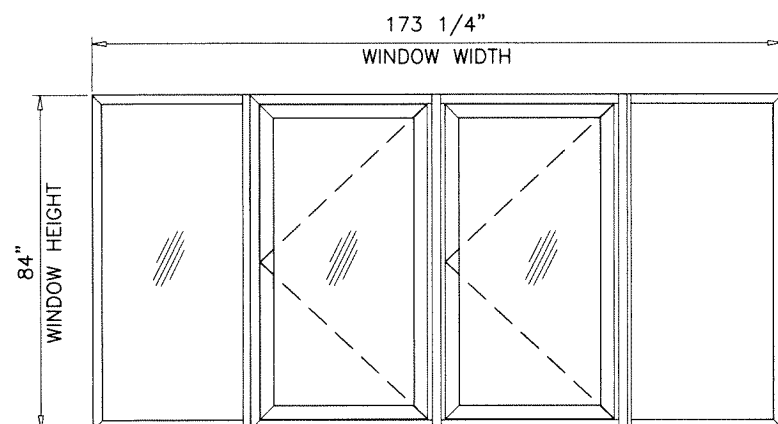
(X-O-X) SHOWN



(O-X-O) SHOWN



(X-X-O) SHOWN
(O-X-X)



(O-X-X-O) SHOWN

NOTE:
TYPICAL CONFIGURATIONS SHOWN.
CASEMENT WINDOWS CAN BE HINGED LEFT OR RIGHT.

APPROVED CONFIGURATIONS

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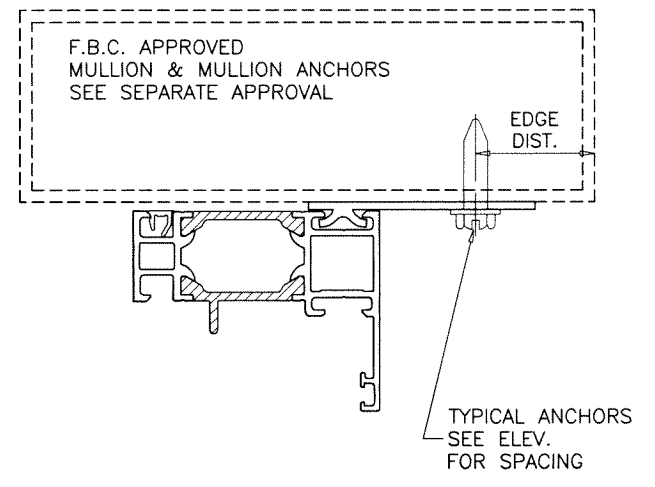
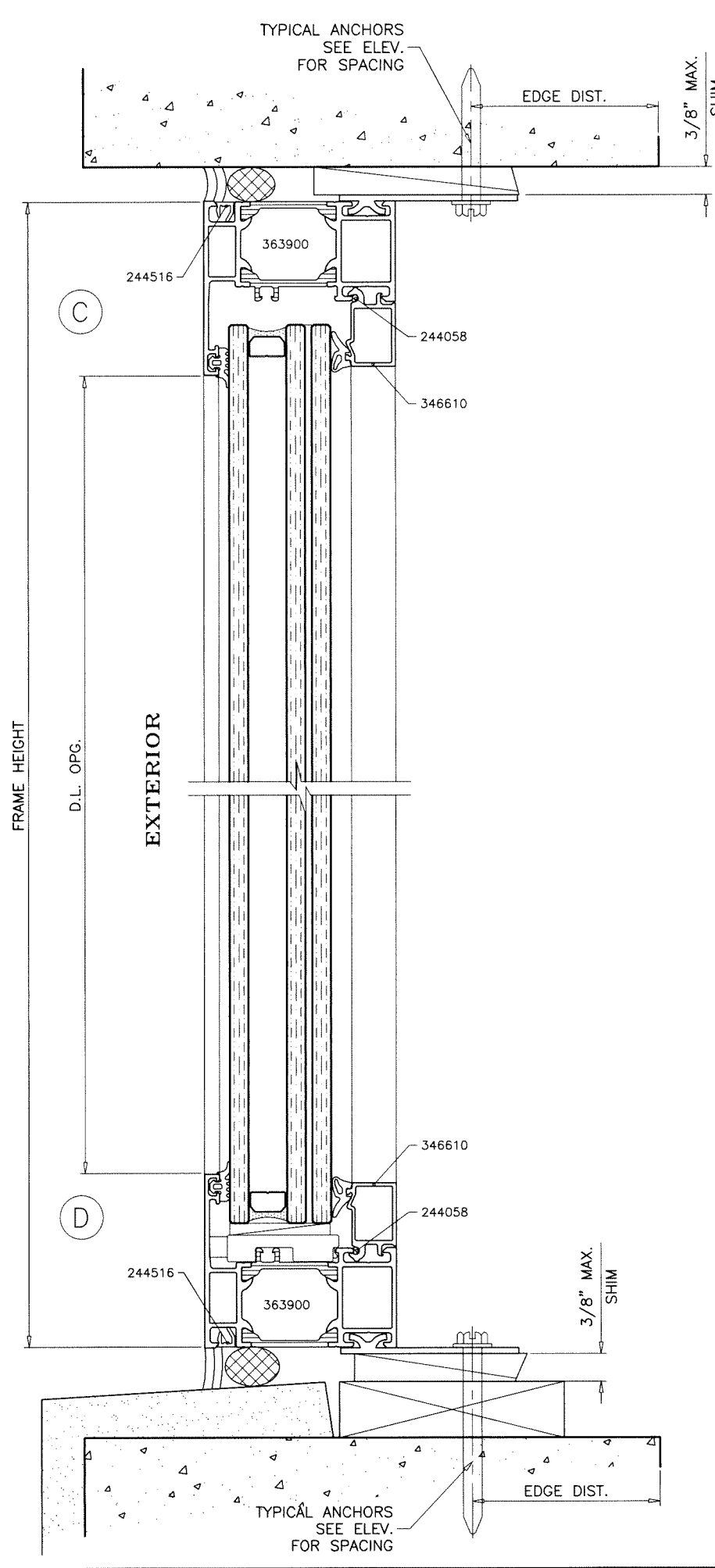
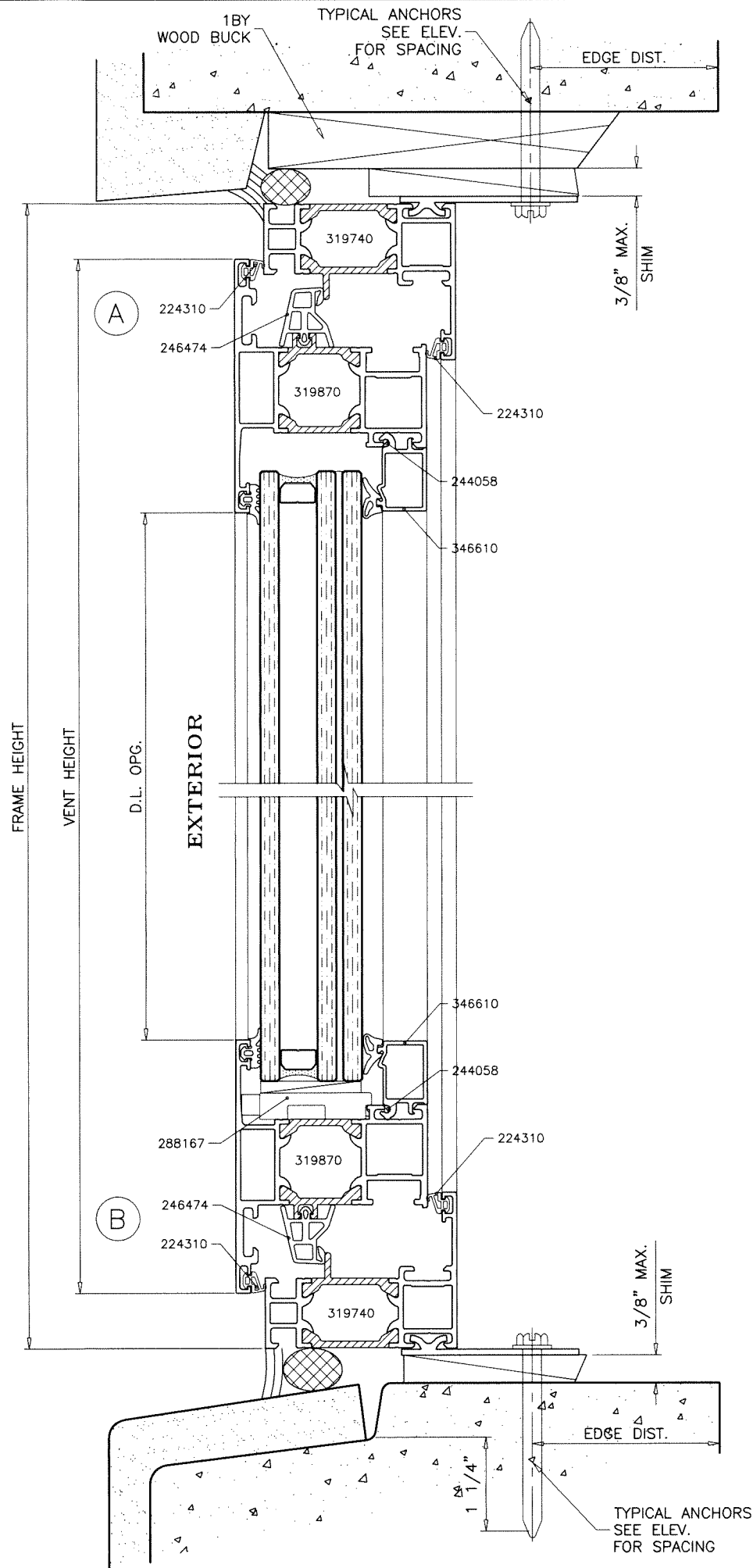
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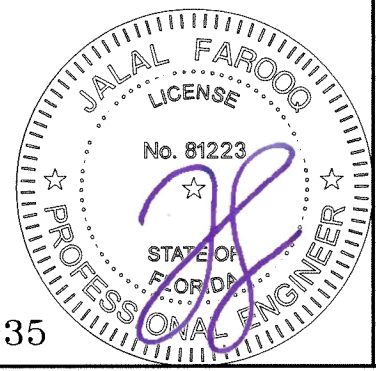
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AWS65 SHOWN
AWS70 & AWS75 SIMILAR



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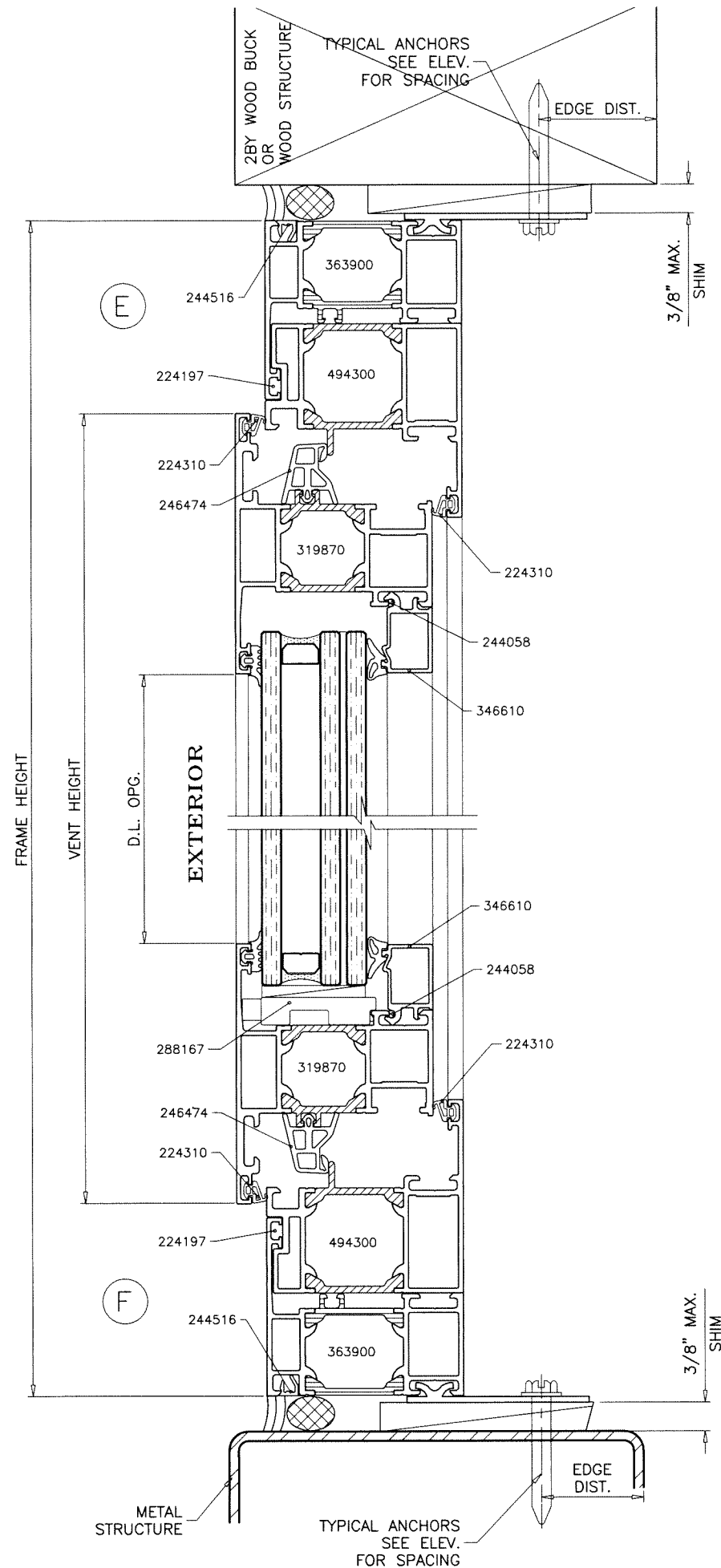
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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'PAGEN SP' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

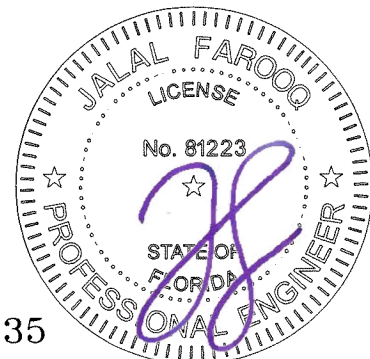
TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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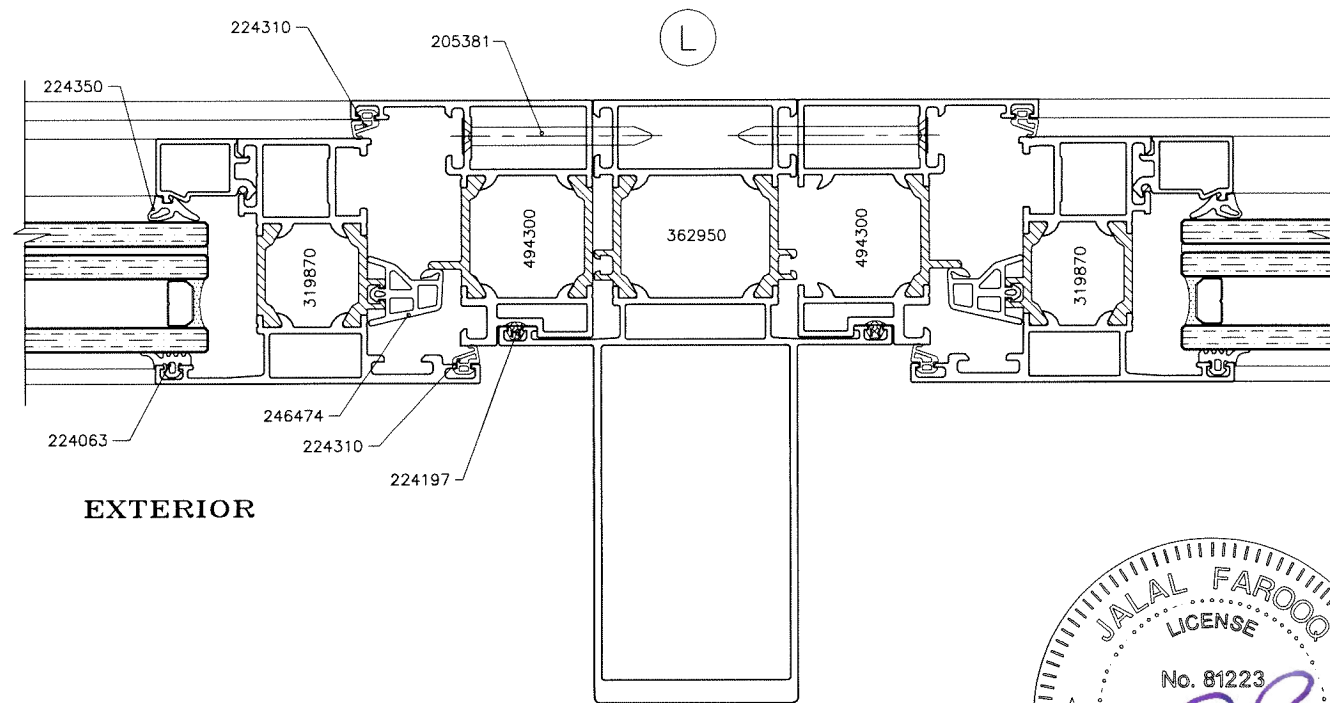
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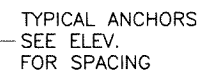
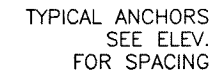
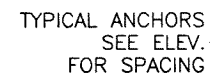
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sheet 7 of 10				



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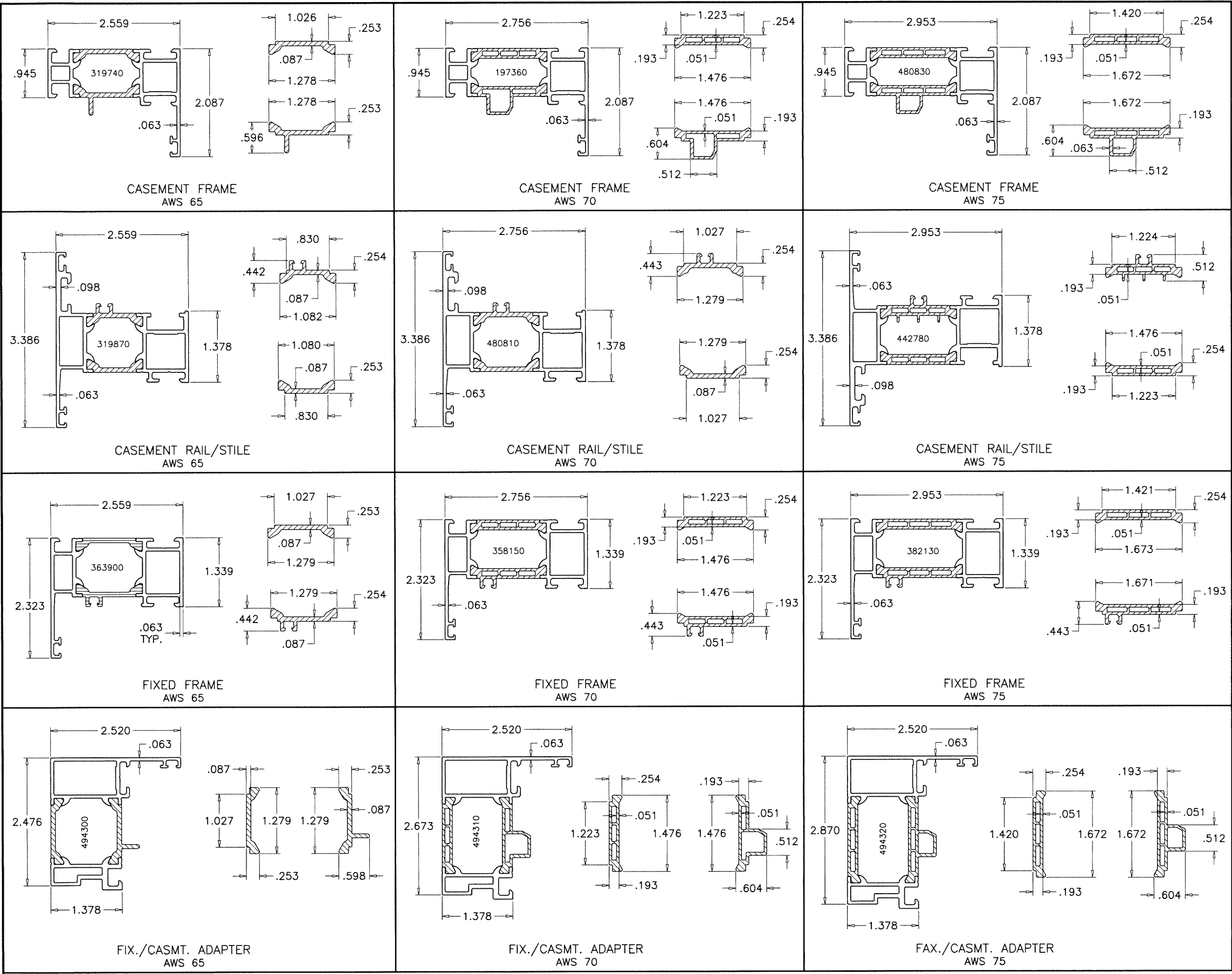
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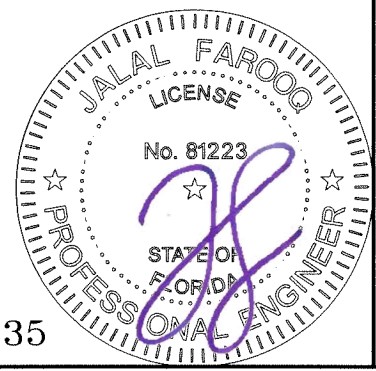
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sheet **8** of 10

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INSULBARS
 MATERIAL = POLYAMIDE
 TENSILE STRENGTH = 13031 PSI
 RATE OF BURN = .752 IN./MIN.
 SELF IGNITION TEMP. = 793° F
 FLASH IGNITION TEMP. = 781°C
 SMOKE DENSITY = 1.63



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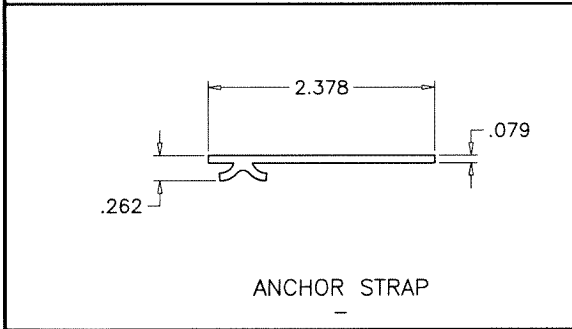
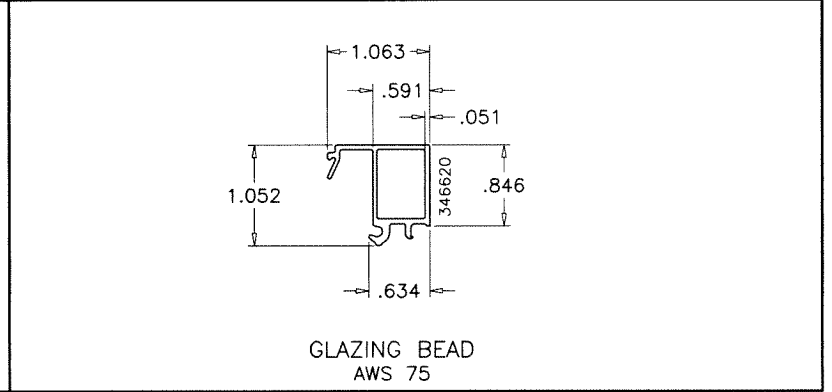
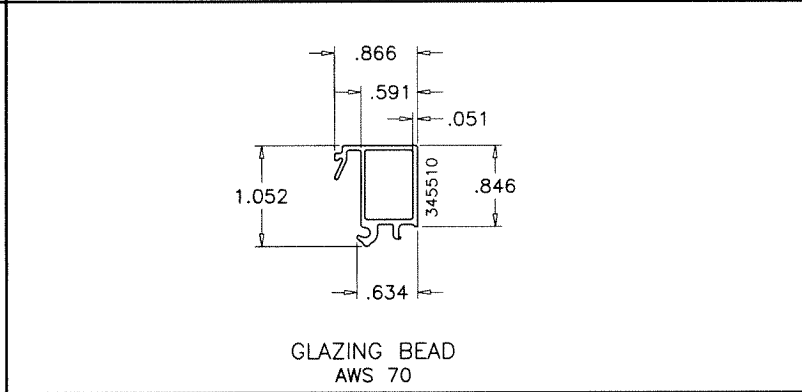
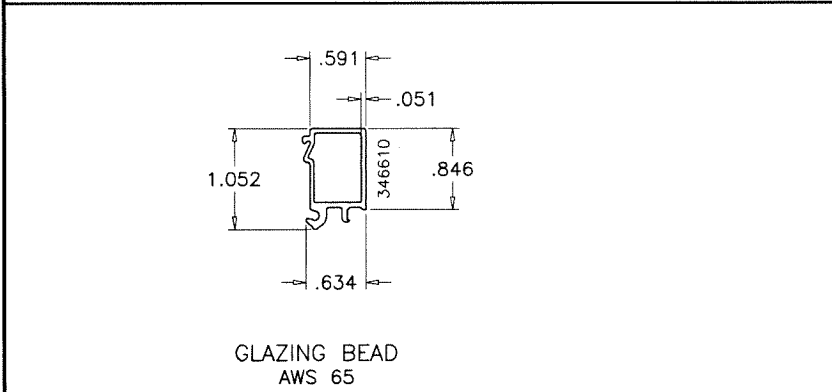
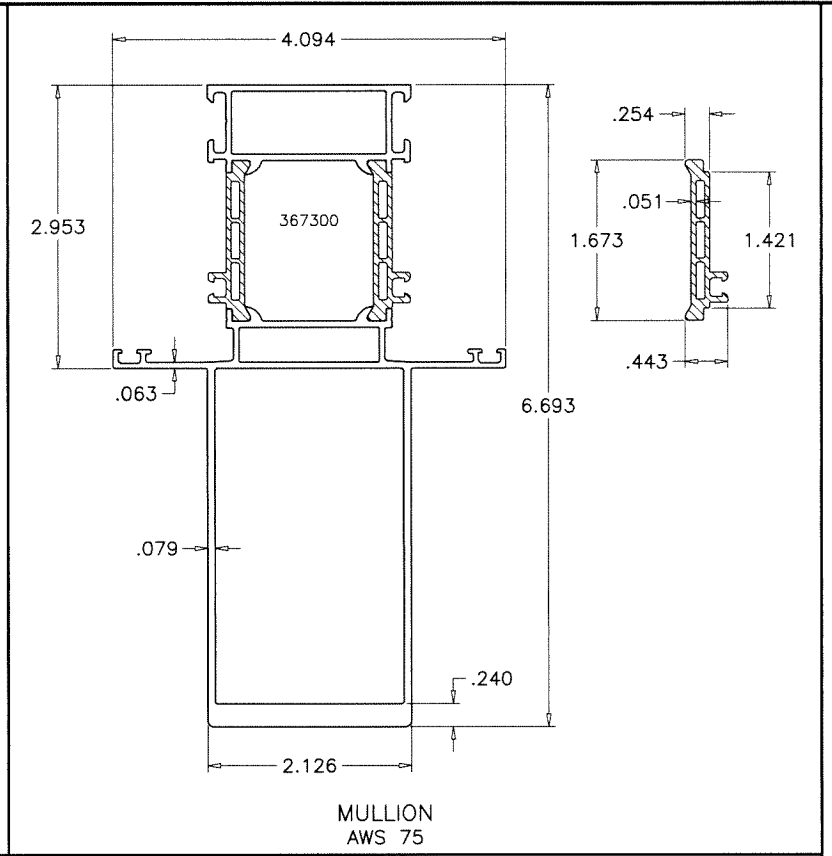
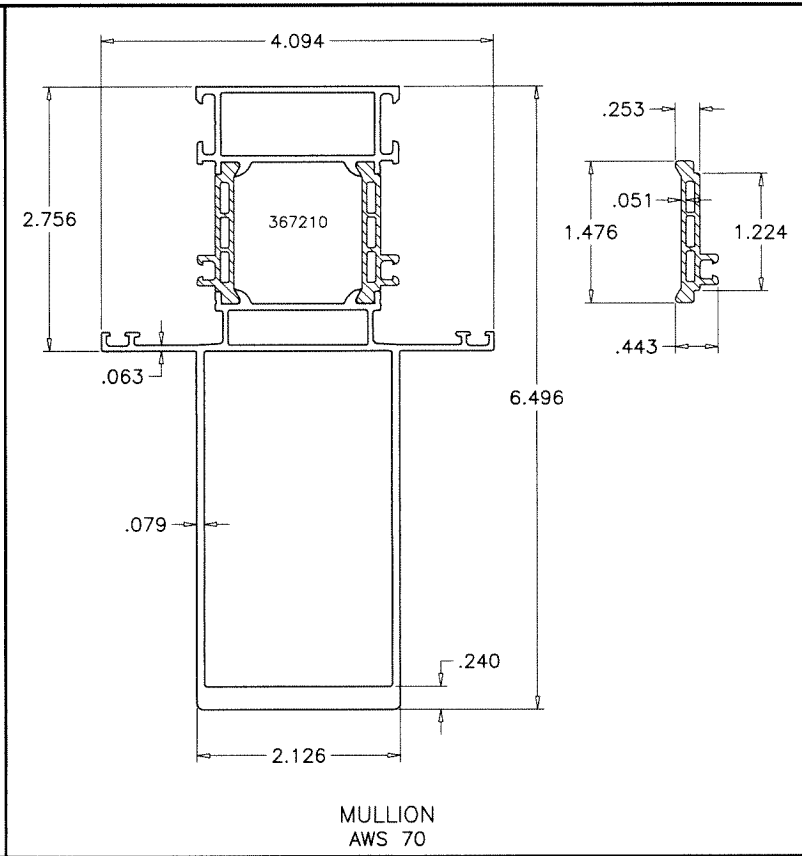
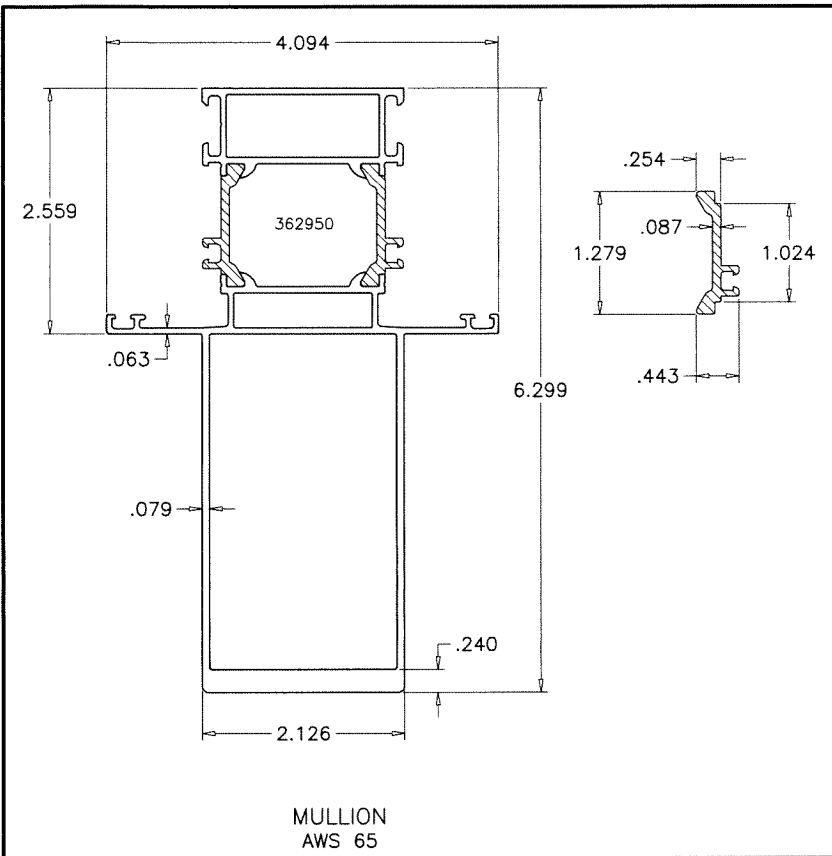
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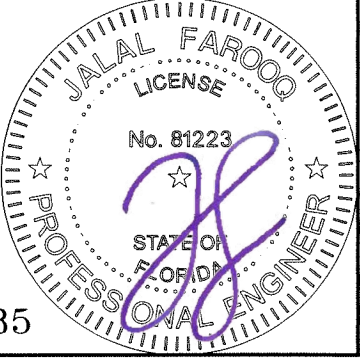
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